

International Journal of Biometeorology

Journal of the International Society of Biometeorology

edited by

W. H. Weihe
Zürich

N. S. G. Hyslop
Ottawa

VOLUME 21

1977

Published by Swets & Zeitlinger B.V., Amsterdam

H543
I5

CONTENTS OF VOLUME 21

NUMBER 1 — MARCH 1977

	Page
Effects of Small Air Ions on Net Blotch Disease of Barley	
..... T. M. Elkiey, R. L. Pelletier, Bhartendu and N. Barthakur	1
Weather and Deaths in Pittsburgh, Pennsylvania; A Comparison with Birmingham Alabama	
..... S. J. States	7
An Anthropocentric Summer Severity Index	
..... J. T. McLaughlin and M. D. Shulman	16
Probit Analysis of Thermal Sensation Assessment	
..... E. R. Ballantyne, R. K. Hill and J. W. Spencer	29
Can Winter Swimming Cause People to Prefer Lower Room Temperatures?	
..... P. O. Fanger, J. Hojbjerre and J. O. B. Thomsen	44
Cold Tolerance of Long-Distance Runners and Swimmers in Hawaii	
..... R. H. Dressendorfer, R. M. Smith, D. G. Baker and S. K. Hong	51
The Effects of Acclimation to Alternating Environmental Temperature on Metabolic and Endocrine Responses in Guinea Pigs during Acute Heat and Cold Exposure	
..... I. Chowder, R. A. Siegel, N. Conforti and L. Baranes	64
Changes in Testis Blood Flow, the Spermatic Artery and Prostaglandin F ₂ Content in Testis Tissue of Heat-Stressed Rams	
..... R. H. Dutt, R. S. Sand and B. Singh	75
Influence of Season and Reproductive Status on Peripheral Plasma Progesterone Levels in the Lactating Bovin	
..... J. D. Roussel, J. F. Beatty and J. A. Lee	85

NUMBER 2 — JUNE 1977

Effects of High Altitude Stay on the Incidence of Common Diseases in Man	
..... I. Singh, I. S. Chohan, M. Lal, P. K. Khanna, M. C. Srivastava,	
..... R. B. Nanda, J. S. Lamba and M. S. Malhotra	93
Cold Responses of High Altitude Populations	
..... M. A. Little and J. M. Hanna	123
Developmental Adaptation to High Altitude Hypoxia	
..... A. R. Frisncho	135
Hypoxia and the CNS: Maturation and Adaptation at High Altitude	
..... Paola S. Timiras	147
Myocardial Electrolytes in Hypobaric Hypoxia	
..... J. J. McGrath and L. G. Martin	157
Bilirubinemia and Intravascular Hemolysis During Acclimatization to High Altitude	
..... P. D. Altland and M. G. Parker	165
The Effects of High Altitudes on Child Growth and Development	
..... I. G. Pawson	171
The Role of Facilitated Diffusion of Oxygen in Tissue Hypoxia	
..... I. S. Longmuir and Laura Pashko	179

EFFECTS OF WEATHER ON PLANTS: SAND BINDING AND DESERT PLANTS

Symposium held at the Seventh International Biometeorological Congress,
17-23 August 1975, College Park, Maryland, USA.
(Chairman: D. E. Tsurieil, Haifa)

Coastal Dune Stability. The Effect of Meteorological Conditions and Vegetation	B. G. Watt	189
Climate, Plant Response and Development of Dunes on Barrier Beaches along the U.S. East Coast	P. J. Godfrey	203
The Effects of Aspect and Exposure on the Growth of Dune Grasses in Cape Hatteras National Seashore	R. Travis	217
The Macroclimate and Microclimate of Coastal Foredune Grasslands in Cape Hatteras National Seashore	A. G. van der Valk	227
Direct Seeding of Grass Species for Sand Dune Stabilization on the Mid-Atlantic Sea Coast	J. M. Zak	238
Establishment of Woody Plants for Secondary and Tertiary Dune Stabilization along the Mid-Atlantic Coast	W. C. Sharp and V. B. Hawk	245
Effect of Species on Dune Grass Growth	W. W. Woodhouse Jr., E. D. Seneca and S. W. Broome	256
Construction of Texas Coastal Foredunes with Sea Oats (<i>Uniola paniculata</i>) and Bitter Panicum (<i>Panicum amarum</i>)	B. E. Dahl and D. W. Woodard	267
Effect on Sand Cover on the Survival and Vigor of <i>Rosa rugosa</i> Thunb	C. R. Belcher	276
Coastal Sand Dune Stabilization in the Pacific Northwest	J. L. Schwendiman	281
Vegetative Control of Inland Sand Dunes in the Pacific Northwest	J. L. Schwendiman	290
Off Road Vehicle Impact in Cape Cod National Seashore: Disruption and Recovery of Dune Vegetation	J. M. Broadhead and P. J. Godfrey	299
Cape. An Improved Strain of American Beachgrass	F. B. Gaffney	307

NUMBER 4 — DECEMBER 1977

Parallelism of Atmospheric Electrical Potential and Mortality in London Air Pollution Episodes	R. Fisher, R. Severs and R. Hardy	311
Vergleichende Berechnung des Energieumsatzes bei der Atmung ..	H. Mayer	319
High Surface Temperatures of Trees and Pine Litter in the Winter and Their Biological Importance	P. Stoutjesdijk	325
Studies on Cold Pressor Response of Subjects Who Suffered from Frostbite at High Altitude	C. S. Nair, I. Singh, M. S. Malhotra, A. Dasgupta and S. K. Dass	332
Psychological Test Performance of Different Personality Types on Sharav Days in Artificial Air Ionisation	Y. Rim	337
Effects of Ambient and Local Cutaneous Temperatures on Hand Blood Flow	B. Levy, A. Ghaem, Jeanne M. Verpillat and J. P. Martineaud	341
The Influence of Environmental Temperature and Photoperiod on Activity in the Red Squirrel, <i>Tamiasciurus hudsonicus</i>	B. R. Bahnak and K. R. Kramm	348
Behavioral Effects in Monkeys Exposed to Extremely Low Frequency Electromagnetic Fields	J. O. de Lorge and J. D. Grisset	357

AUTHOR INDEX

- Altland, P. D. 165
 Bahnak, B. R. 348
 Baker, D. G. 51
 Ballantyne, E. R. 29
 Barthakur, N. 1
 Baranes, L. 64
 Beatty, J. F. 85
 Belcher, C. R. 276
 Bhartendu, I
 Broadhead, J. M. 299
 Broome, S. W. 256
 Chohan, I. S. 93
 Chowders, I. 64
 Conforti, N. 64
 Dahl, B. E. 267
 Dasgupta, A. 332
 Dass, S. K. 357
 de Lorge, J. O. 357
 Dressendorfer, R. H. 51
 Dutt, R. H. 75
 Elkies, T. M. 1
 Fanger, P. O. 44
 Fisher, R. 311
 Frisancho, A. R. 135
 Gaffney, F. B. 307
 Ghaem, A. 341
 Godfrey, P. J. 203, 299
 Grisset, J. D. 357
 Hanna, J. M. 123
 Hardy, R. 311
 Hawk, V. B. 245
 Hill, R. K. 29
 Højbjerg, J. 44
 Hong, S. K. 51
 Khanna, P. K. 93
 Kramm, K. R. 348
 Lal, M. 93
 Lamba, J. S. 93
 Lee, J. A. 85
 Levy, B. 341
 Little, M. A. 123
 Longmuir, I. S. 179
 Malhotra, M. S. 93, 332
 Martin, L. G. 157
 Martineaud, J. P. 341
 Mayer, H. 319
 McGrath, J. J. 157
 McLaughlin, J. T. 16
 Nair, C. S. 332
 Nanda, R. B. 93
 Parker, M. G. 165
 Pashko, Laura, 179
 Pawson, I. G. 171
 Pelletier, R. L. 1
 Rim, Y. 337
 Roussel, J. D. 85
 Sand, R. S. 75
 Schwendiman, J. L. 281, 290
 Seneca, E. D. 256
 Severs, R. 311
 Sharp, W. C. 245
 Shulman, M. D. 16
 Siegel, R. A. 64
 Singh, B. 75
 Singh, I. 93, 332
 Smith, R. M. 51
 Spencer, J. W. 29
 Srivastava, M. C. 93
 States, S. J. 7
 Stoutjesdijk, P. 325
 Thomsen, J. O. B. 44
 Timiras, Paola S. 147
 Travis, R. 217
 van der Valk, A. G. 227
 Verpillat, Jeanne M. 341
 Watt, B. G. 189
 Woodard, D. W. 267
 Woodhouse Jr., W. W. 256
 Zak, J. M. 238

